

REMARKS

I. STATUS OF THE CLAIMS

Claims 1, 3, 13, 15, 21, 22 and 25 has been amended and claims 4 and 16 have been cancelled without prejudice or disclaimer of their subject matter. No new matter is believed to have been added.

Claims 1-3, 5-15 and 17-27 are pending in the present application. Claims 1, 10, 13, 21, 22 and 25 are the independent claims.

Applicants acknowledge with appreciation the allowance of claims 10-12, the indication that claims 6-9 recite patentable subject matter and would be allowable if rewritten in independent form to include all of the features of the base claim and any intervening claims and the indication that claims 17-20, 21, 25 and 26-27 would be allowable if rewritten to overcome the rejections under 35 U.S.C. § 112, second paragraph.

II. THE REJECTION OF CLAIMS 3 AND 13-27 UNDER 35 U.S.C. §112, SECOND PARAGRAPH, AS BEING INDEFINITE

Applicants have amended claim 3, 13, 15, 21 and 25 in accordance with the Examiner's comments. Accordingly, Applicants respectfully submit that claims 3, 13, 15, 21 and 25, as amended, are definite and therefore fully comply with the requirements of 35 U.S.C. § 112, second paragraph. Proper support for the amendment to the claims is found in the specification at least at paragraphs [0035] and [0037].

Accordingly, Applicants respectfully request that the rejection of claims 3, 13, 15, 21 and 25 under 35 U.S.C. §112, second paragraph be withdrawn.

Furthermore, Applicants respectfully request that the rejection of claims 14, 17-20, 23-24 and 26-27 under 35 U.S.C. §112, second paragraph, be withdrawn since these claims depend upon newly amended independent claims 1, 13, 22 and 25.

III. THE REJECTION OF CLAIMS 1-5, 13-16 AND 22 UNDER 35 U.S.C. §102(b) AS BEING ANTICIPATED BY U.S. PATENT NO. 5,446,416 TO LIN (HEREINAFTER LIN)

Applicants respectfully traverse this rejection for at least the following reasons.

Independent claim 1, as amended, recites an apparatus generating a clock signal,

comprising, amongst other novel aspects, a frequency compensator, wherein the frequency compensator comprises a booster which **boosts a high-frequency component of the input signal**.

The Office Action relies upon loop filter 35 (Fig. 1) of Lin for a teaching of a booster for boosting a high-frequency component of an input signal. However, the loop filter taught by Lin simply teaches processing detected signals (column 1, lines 55-62). Accordingly, Lin does not teach or suggest the capability of boosting a high-frequency component of the input signal, as recited in newly amended independent claim 1.

Accordingly, Applicants respectfully assert that the rejection of independent claim 1 under 35 U.S.C. § 102(b) should be withdrawn because Lin fails to teach or suggest the features recited in newly amended independent claim 1.

Furthermore, Applicants respectfully assert that dependent claims 2-3 and 5 are allowable at least because of their dependence from claim 1 and the reasons set forth above.

Dependent claim 4 has been cancelled without prejudice or disclaimer, thus rendering the rejection of claim 4 moot.

Independent claim 13, as amended, recites a method of generating a clock signal, comprising, amongst other novel aspects, outputting of the second control voltage corresponding to the frequency difference comprising receiving the clock signal and a signal generated by **boosting a high-frequency component of the input signal**, detecting a frequency difference between the clock signal and the signal, and outputting the second control voltage corresponding to the frequency difference.

As noted above, the Office Action relies upon a loop filter 35 (Fig. 1) of Lin for a teaching of a booster for boosting a high-frequency component of an input signal. However, as noted above, Lin discloses processing a detected signal but fails to teach or suggest that the loop filter 35 **boosts a high-frequency component of the input signal**, as recited in newly amended independent claim 13.

Accordingly, Applicants respectfully assert that the rejection of independent claim 13 under 35 U.S.C. § 102(b) should be withdrawn because Lin fails to teach or suggest the features recited in newly amended independent claim 13.

Furthermore, Applicants respectfully assert that dependent claims 14-15 are allowable at least because of their dependence from claim 13 and the reasons set forth above.

Dependent claim 16 has been cancelled without prejudice or disclaimer, thus rendering the rejection of claim 16 moot.

Independent claim 22, as amended, recites a computer readable recording medium having embodied thereon a computer program for a method of generating a clock signal, the method comprising, amongst other novel aspects, outputting of the second control voltage corresponding to the frequency difference comprising receiving the clock signal and a signal generated by **boosting a high-frequency component of the input signal**, detecting a frequency difference between the clock signal and the signal, and outputting the second control voltage corresponding to the frequency difference.

As noted above, the Office Action relies upon a loop filter 35 (Fig. 1) of Lin for a teaching of a booster for boosting a high-frequency component of an input signal. However, as noted above, Lin discloses processing a detected signal but fails to teach or suggest that the loop filter 35 **boosts a high-frequency component of the input signal**, as recited in newly amended independent claim 22.

Accordingly, Applicants respectfully assert that the rejection of independent claim 22 under 35 U.S.C. § 102(b) should be withdrawn because Lin fails to teach or suggest the features recited in newly amended independent claim 22.

IV. THE REJECTION OF CLAIMS 23 AND 24 UNDER 35 U.S.C. §103(a) AS BEING UNPATENTABLE OVER LIN IN VIEW OF U.S. PATENT NO. 5,751,675 TO TSUTSUI (HEREINAFTER TSUTSUI)

Applicants respectfully traverse this rejection for at least the following reasons.

Claims 23 and 24 depend upon independent claim 22. As noted above, Lin fails to teach or suggest the features recited in newly amended independent claim 22.

Tsutsui teaches a recording and/or reproduction apparatus and method for optical recording medium by which information is recorded from any of a plurality of recording layers of an optical disk (abstract).

Tsutsui fails however to teach receiving the clock signal and a signal generated by **boosting a high-frequency component of the input signal**, as recited in newly amended independent claim 22.

Accordingly, Tsutsui fails to cure the deficiencies of Lin. Therefore, Applicants respectfully assert that the rejection of claims 23 and 24 should be withdrawn because neither Lin nor Tsutsui whether taken singly or combined teach or suggest the features recited in newly amended claim 22, upon which claims 23 and 24 depend.

IV. CONCLUSION

In accordance with the foregoing, it is respectfully submitted that all outstanding rejections have been overcome and/or rendered moot. And further, that all pending claims patentably distinguish over the prior art. Thus, there being no further outstanding rejections, the application is submitted as being in condition for allowance which action is earnestly solicited.

If the Examiner has any remaining issues to be addressed, it is believed that prosecution can be expedited and possibly concluded by the Examiner contacting the undersigned attorney for a telephone interview to discuss any such remaining issues.

If there are any underpayments or overpayments of fees associated with the filing of this Amendment, please charge and/or credit the same to our Deposit Account No. 503333.

Respectfully submitted,

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